Foundations of Algebra

Module 1: Number Sense and Quantity

Materials List

| Lesson | Materials |
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| 1. [Building](#Variable) Number Sense Activities | * Ten Frames |
| 2. [Fact](#Analyzing) Families | * Grid Paper * Colored pencils * Color tiles (optional) * Array-nging Our Fact Families recording sheet |
| 3. [Is](#Set) it Reasonable? | * Compatible Numbers recording sheet |
| 4. [Yummy…Chocolate](#Let) 3-Act Task | * Pictures of Ferrerro Rocher Chocolates |
| Problem Solving Assessment | * Assessment questions |
| 5. [Birthday](#Solving) Cake | * Birthday Cake student recording sheet * Paper plates (optional) * Two sided counters (optional) |
| 6. [Fraction](#Deconstructing) Clues | * Color Tiles * Fraction Clues recording sheet * Colored pencils |
| 7. [Multiplying](#Steps) Fractions | * Colored pencils * Area Model recording sheet * “How Many CC’s ?” recording sheet |
| 8. [Birthday](#TV) Cookout | * Birthday Cookout recording sheet |
| 9. [Chance](#When) of Surgery | * A Chance of Surgery recording sheet |
| 10. Fractional Divisors | * Small bag (one per group) of chocolate candies * Base Ten blocks * Unit Cubes * Rulers |
| 11. [Dividing](#Yogurt) Fractions With Models | * Freezer Pops (or paper-template in task) * Color Tiles * Grid paper |
| 12. [Representing](#Battleship) Powers of Ten Using Base Ten Blocks | * Base Ten blocks |
| 13. [Multiplying](#Acting) by Powers of Ten | * Internet connection |
| 14. [Patterns-R-Us](#Acting) | * Patterns R Us recording sheet * Calculators |
| 15. [Comparing](#Free) Decimals | * Comparing Decimals recording sheet |
| 16. [Are](#Stacking) These Equivalent? | * Grid paper (optional) |
| 17. [Integers](#Planning) on a number line | * Number line * Two sided counters * Red and Yellow flags (or pieces of paper) |
| 18. [FAL](#Field): Using Positive and Negative Numbers in Context | * Temperature Change assessment lesson * Temperature Change (revisited) assessment lesson * City temperature cards * Changes in temperature cards |
| 19. Deep Freeze | * Video for Deep Freeze * Recording sheet (attached) |
| 20. [Penny](#Cheaper) Cube | * Video for Penny Cube * Recording sheet (attached) |
| 21. Multiplying Rational Numbers | * Two sided counters (or two colors of counters) |
| 22. Pattern of Multiplication and Division | * Patterns of Multiplication and Division lesson sheet * Colored pencils-red and yellow * Extra blank number lines (optional) * Two sided counters (or two colors of counters) |
| 23. Rational or Irrational? | * Internet access |
| 24. Estimating the Square Root of a Number | * Colored Tiles * Estimating the Square Root of a Number recording sheet |
| 25. Decimal Approximation of Roots | * One inch Grid paper * Scissors * Decimal Approximation of Roots lesson * Open Middle recording sheet |
| 26. Operations with Rational and Irrational Numbers | * Internet access |
| 27. Debits and Credits | * Student ledger sheet |